

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/700,632A
Source: 1FW/b
Date Processed by STIC: 11/20/06

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 11/20/2006

PATENT APPLICATION: US/10/700,632A

TIME: 13:22:40

Input Set : A:\10-700,632 Sequence Listing.txt

Output Set: N:\CRF4\11202006\J700632A.raw

3 <110> APPLICANT: ImmunoGen, Inc.

5 <120> TITLE OF INVENTION: ANTI-CD33 ANTIBODIES AND METHODS FOR TREATMENT OF
ACUTE MYELOID

6 LEUKEMIA USING THE SAME

8 <130> FILE REFERENCE: A8427

10 <140> CURRENT APPLICATION NUMBER: 10/700,632A

11 <141> CURRENT FILING DATE: 2003-11-05

13 <150> PRIOR APPLICATION NUMBER: US 60/424,332

14 <151> PRIOR FILING DATE: 2002-11-07

16 <160> NUMBER OF SEQ ID NOS: 96

18 <170> SOFTWARE: PatentIn version 3.3

20 <210> SEQ ID NO: 1

21 <211> LENGTH: 5

22 <212> TYPE: PRT

23 <213> ORGANISM: Mus musculus

25 <400> SEQUENCE: 1

27 Ser Tyr Tyr Ile His

28 1 5

31 <210> SEQ ID NO: 2

32 <211> LENGTH: 17

33 <212> TYPE: PRT

34 <213> ORGANISM: Mus musculus

37 <220> FEATURE:

38 <221> NAME/KEY: MISC_FEATURE

39 <222> LOCATION: (16)..(16)

40 <223> OTHER INFORMATION: "X" may be K or Q

42 <400> SEQUENCE: 2

W--> 44 Val Ile Tyr Pro Gly Asn Asp Asp Ile Ser Tyr Asn Gln Lys Phe Xaa

45 1 5 10 15

48 Gly

52 <210> SEQ ID NO: 3

53 <211> LENGTH: 9

54 <212> TYPE: PRT

55 <213> ORGANISM: Mus musculus

57 <400> SEQUENCE: 3

59 Glu Val Arg Leu Arg Tyr Phe Asp Val

60 1 5

63 <210> SEQ ID NO: 4

64 <211> LENGTH: 17

65 <212> TYPE: PRT

66 <213> ORGANISM: Mus musculus

68 <400> SEQUENCE: 4

70 Lys Ser Ser Gln Ser Val Phe Phe Ser Ser Ser Gln Lys Asn Tyr Leu

71 1 5 10 15

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DATE: 11/20/2006

PATENT APPLICATION: US/10/700,632A

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Input Set : A:\10-700,632 Sequence Listing.txt

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74 Ala
78 <210> SEQ ID NO: 5
79 <211> LENGTH: 7
80 <212> TYPE: PRT
81 <213> ORGANISM: Mus musculus
83 <400> SEQUENCE: 5
85 Trp Ala Ser Thr Arg Glu Ser
86 1 5
89 <210> SEQ ID NO: 6
90 <211> LENGTH: 8
91 <212> TYPE: PRT
92 <213> ORGANISM: Mus musculus
94 <400> SEQUENCE: 6
96 His Gln Tyr Leu Ser Ser Arg Thr
97 1 5
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 118
102 <212> TYPE: PRT
103 <213> ORGANISM: Mus musculus
105 <400> SEQUENCE: 7
107 Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Val Val Lys Pro Gly Ala
108 1 5 10 15
111 Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
112 20 25 30
115 Tyr Ile His Trp Ile Lys Gln Thr Pro Gly Gln Gly Leu Glu Trp Val
116 35 40 45
119 Gly Val Ile Tyr Pro Gly Asn Asp Asp Ile Ser Tyr Asn Gln Lys Phe
120 50 55 60
123 Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Thr Thr Ala Tyr
124 65 70 75 80
127 Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
128 85 90 95
131 Ala Arg Glu Val Arg Leu Arg Tyr Phe Asp Val Trp Gly Ala Gly Thr
132 100 105 110
135 Thr Val Thr Val Ser Ser
136 115
139 <210> SEQ ID NO: 8
140 <211> LENGTH: 113
141 <212> TYPE: PRT
142 <213> ORGANISM: Mus musculus
144 <400> SEQUENCE: 8
146 Asn Ile Met Leu Thr Gln Ser Pro Ser Ser Leu Ala Val Ser Ala Gly
147 1 5 10 15
150 Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Phe Phe Ser
151 20 25 30
154 Ser Ser Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Ile Pro Gly Gln
155 35 40 45
158 Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
159 50 55 60

```

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162 Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 163 65 70 75 80
 166 Ile Ser Ser Val Gln Ser Glu Asp Leu Ala Ile Tyr Tyr Cys His Gln
 167 85 90 95
 170 Tyr Leu Ser Ser Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 171 100 105 110

174 Arg

178 <210> SEQ ID NO: 9

179 <211> LENGTH: 118

180 <212> TYPE: PRT

181 <213> ORGANISM: Artificial Sequence

183 <220> FEATURE:

184 <223> OTHER INFORMATION: Humanized My9-6 antibody heavy chain variable
 region

186 <400> SEQUENCE: 9

188 Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Val Val Lys Pro Gly Ala
 189 1 5 10 15
 192 Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 193 20 25 30
 196 Tyr Ile His Trp Ile Lys Gln Thr Pro Gly Gln Gly Leu Glu Trp Val
 197 35 40 45
 200 Gly Val Ile Tyr Pro Gly Asn Asp Asp Ile Ser Tyr Asn Gln Lys Phe
 201 50 55 60
 204 Gln Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Thr Thr Ala Tyr
 205 65 70 75 80
 208 Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
 209 85 90 95
 212 Ala Arg Glu Val Arg Leu Arg Tyr Phe Asp Val Trp Gly Gln Gly Thr
 213 100 105 110

216 Thr Val Thr Val Ser Ser

217 115

220 <210> SEQ ID NO: 10

221 <211> LENGTH: 113

222 <212> TYPE: PRT

223 <213> ORGANISM: Artificial Sequence

225 <220> FEATURE:

226 <223> OTHER INFORMATION: Humanized My9-6 antibody light chain variable
 region

228 <400> SEQUENCE: 10

230 Glu Ile Val Leu Thr Gln Ser Pro Gly Ser Leu Ala Val Ser Pro Gly
 231 1 5 10 15
 234 Glu Arg Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Phe Phe Ser
 235 20 25 30
 238 Ser Ser Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Ile Pro Gly Gln
 239 35 40 45
 242 Ser Pro Arg Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 243 50 55 60
 246 Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 247 65 70 75 80
 250 Ile Ser Ser Val Gln Pro Glu Asp Leu Ala Ile Tyr Tyr Cys His Gln
 251 85 90 95

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```

254 Tyr Leu Ser Ser Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
255           100           105           110
258 Arg
262 <210> SEQ ID NO: 11
263 <211> LENGTH: 46
264 <212> TYPE: DNA
265 <213> ORGANISM: Artificial Sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: PCR primer HindKL
270 <400> SEQUENCE: 11
271 tatagagctc aagcttggat ggtgggaaga tggatacagt tgggtgc           46
274 <210> SEQ ID NO: 12
275 <211> LENGTH: 36
276 <212> TYPE: DNA
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: PCR primer Bgl2IgG1
282 <400> SEQUENCE: 12
283 ggaagatcta tagacagatg ggggtgtcgt tttggc           36
286 <210> SEQ ID NO: 13
287 <211> LENGTH: 30
288 <212> TYPE: DNA
289 <213> ORGANISM: Artificial Sequence
291 <220> FEATURE:
292 <223> OTHER INFORMATION: PCR primer EcoPolydC
294 <400> SEQUENCE: 13
295 tatatctaga attccccccc ccccccccc           30
298 <210> SEQ ID NO: 14
299 <211> LENGTH: 32
300 <212> TYPE: DNA
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
304 <223> OTHER INFORMATION: PCR primer Sac1MK
306 <400> SEQUENCE: 14
307 gggagctcga yattgtgmts acmcarwctm ca           32
310 <210> SEQ ID NO: 15
311 <211> LENGTH: 32
312 <212> TYPE: DNA
313 <213> ORGANISM: Artificial Sequence
315 <220> FEATURE:
316 <223> OTHER INFORMATION: PCR primer EcoR1MH1
319 <220> FEATURE:
320 <221> NAME/KEY: misc_feature
321 <222> LOCATION: (18)..(18)
322 <223> OTHER INFORMATION: "n" may be any nucleotide
324 <400> SEQUENCE: 15
W--> 325 cttccggaat tcsargtnma gctgsagsag tc           32
328 <210> SEQ ID NO: 16
329 <211> LENGTH: 35

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Input Set : A:\10-700,632 Sequence Listing.txt

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330 <212> TYPE: DNA
331 <213> ORGANISM: Artificial Sequence
333 <220> FEATURE:
334 <223> OTHER INFORMATION: PCR primer EcoR1MH2
337 <220> FEATURE:
338 <221> NAME/KEY: misc_feature
339 <222> LOCATION: (18)..(18)
340 <223> OTHER INFORMATION: "n" may be any nucleotide
342 <400> SEQUENCE: 16
W--> 343 cttccggaat tcsargtnma gctgsagsag tcwgg 35
346 <210> SEQ ID NO: 17
347 <211> LENGTH: 34
348 <212> TYPE: DNA
349 <213> ORGANISM: Artificial Sequence
351 <220> FEATURE:
352 <223> OTHER INFORMATION: Degenerate primer Leaddeg1
355 <220> FEATURE:
356 <221> NAME/KEY: misc_feature
357 <222> LOCATION: (26)..(26)
358 <223> OTHER INFORMATION: "n" may be any nucleotide
360 <220> FEATURE:
361 <221> NAME/KEY: misc_feature
362 <222> LOCATION: (29)..(29)
363 <223> OTHER INFORMATION: "n" may be any nucleotide
365 <400> SEQUENCE: 17
W--> 366 ttttgattct gctgtgggtg tccggnacnt gygg 34
369 <210> SEQ ID NO: 18
370 <211> LENGTH: 33
371 <212> TYPE: DNA
372 <213> ORGANISM: Artificial Sequence
374 <220> FEATURE:
375 <223> OTHER INFORMATION: Degenerate primer Leaddeg2
378 <220> FEATURE:
379 <221> NAME/KEY: misc_feature
380 <222> LOCATION: (28)..(28)
381 <223> OTHER INFORMATION: "n" may be any nucleotide
383 <220> FEATURE:
384 <221> NAME/KEY: misc_feature
385 <222> LOCATION: (31)..(31)
386 <223> OTHER INFORMATION: "n" may be any nucleotide
388 <400> SEQUENCE: 18
W--> 389 ttttgattcg ctgctgctgc tgtgggtnws ngg 33
392 <210> SEQ ID NO: 19
393 <211> LENGTH: 39
394 <212> TYPE: DNA
395 <213> ORGANISM: Artificial Sequence
397 <220> FEATURE:
398 <223> OTHER INFORMATION: Degenerate primer Leaddeg3
401 <220> FEATURE:

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/700,632A

DATE: 11/20/2006
TIME: 13:22:42

Input Set : A:\10-700,632 Sequence Listing.txt
Output Set: N:\CRF4\11202006\J700632A.raw

FYI
Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220>

to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Xaa Pos. 16
Seq#:15; N Pos. 18
Seq#:16; N Pos. 18
Seq#:17; N Pos. 26, 29
Seq#:18; N Pos. 28, 31
Seq#:19; N Pos. 31, 34
Seq#:44; Xaa Pos. 23
Seq#:78; Xaa Pos. 1

VERIFICATION SUMMARY

DATE: 11/20/2006

PATENT APPLICATION: US/10/700,632A

TIME: 13:22:42

Input Set : A:\10-700,632 Sequence Listing.txt

Output Set: N:\CRF4\11202006\J700632A.raw

L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:16
L:1641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:0